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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,270	06/27/2002	Hui Zhong	312302US40PCT	9445
22850 7590 11/06/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER	
			DINH, TUAN T	
ALLAMNDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2841	
			NOTIFICATION DATE	DELIVERY MODE
			11/06/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

	Application No.	Applicant(s)			
	10/049,270	ZHONG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Tuan T. Dinh	2841			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>07 Ar</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 9,32,34,36,39 and 40 is/are pending in 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 32,34,39 and 40 is/are allowed. 6) ☐ Claim(s) 9,36 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ accession and application and accession is a specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ accession and accession accession accession and accession accession and accession accessi	vn from consideration. election requirement.	≣xaminer.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 09/23/08.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/07/08 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iwasaki in view of Koushima et al. (Patent 5,665,795, the cited reference in the record or submitted by applicant).

As to claim 9, Iwasaki discloses a multilayered printed circuit board (1, figure 2) comprising:

a conductor circuit (7) and a resin insulating layer (11, 12, 8) serially formed on a substrate (10) in an alternate fashion and in repetition; and

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a solder resist layer (8b, figure 2) formed as an outermost layer contains an at least one resin selected from the group consisting of a thermosetting or thermoplastic resin (see column 7, lines 4-6).

Iwasaki does not specific disclose an elastomer component disposed within the resin and is separated in micro-phase as to form an island-in-sea structure after curing in said solder resist layer.

Koushima teaches a resin composition comprising a thermoplastic resin having a spherical filler disposed within the resin (see an abstract). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have a teaching of Koushima employed in the multilayer circuit board of Iwagashi in order to provide an excellent in mold-ability and prevent solder slash.

4. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iwasaki in view of Enomoto et al. (the references cited in the record or submitted by applicant).

As to claim 36, Iwasaki discloses a multilayered printed circuit board (1, figure 2) comprising:

a conductor circuit (7) and a resin insulating layer (11, 12, 8) serially formed on a substrate (10) in an alternate fashion and in repetition; and

a solder resist layer (8b, figure 2) formed as an outermost layer contains an at least one resin selected from the group consisting of a thermosetting or thermoplastic resin (see column 7, lines 4-6).

Iwasaki does not specific disclose an elastomer component disposed within the resin and is separated in micro-phase as to form an island-in-sea structure after curing in said solder resist layer.

Enomoto et al. teaches a printed circuit board as shown in figures 3-4 comprising an adhesive layer laminated on a substrate and having epoxy fine power disposed within the resin (see an abstract). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have a teaching of Enomoto employed in the multilayer circuit board of Iwagashi in order to provide an excellent thermal resistance and stability adhesive properties on the circuit board.

Allowable Subject Matter

Claims 32, 34, and 39-40 allowed.

The following is an examiner's statement of reasons for allowance: the reason for allowance has been stated in the previous Office action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Applicant's arguments with respect to claims 9, 32, 34, 36, and 39-40 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nishida and fujimoto disclose related art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reichard Dean can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tuan T Dinh/ Primary Examiner, Art Unit 2841